

PTO/SB/80 (12-03)

Approved for use through 11/30/2005. OMB 0651-0035

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I hereby appoint:

 Practitioners associated with the Customer Number:

40575

OR

 Practitioner(s) named below (if more than ten patent practitioners are to be named, then a customer number must be used):

Name	Registration Number

as attorney(s) or agent(s) to represent the undersigned before the United States Patent and Trademark Office (USPTO) in connection with any and all patent applications assigned only to the undersigned according to the USPTO assignment records or assignment documents attached to this form in accordance with 37 CFR 3.73(b).

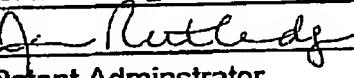
Assignee Name and Address:

Mems Optical, Inc.
205 Import Circle, Suite 2
Huntsville, AL 35806

A copy of this form, together with a statement under 37 CFR 3.73(b) (Form PTO/SB/86 or equivalent) is required to be filed in each application in which this form is used. The statement under 37 CFR 3.73(b) may be completed by one of the practitioners appointed in this form if the appointed practitioner is authorized to act on behalf of the assignee, and must identify the application in which this Power of Attorney is to be filed.

SIGNATURE of Assignee of Record

The individual whose signature and title is supplied below is authorized to act on behalf of the assignee

Name	Jim Rutledge	Date	
Signature		1/9/04	
Title	Patent Administrator	Telephone	1.256.859.1886

This collection of information is required by 37 CFR 1.31 and 1.33. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 3 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments including gathering, preparing, and submitting the completed application form to the USPTO, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

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APR - 1 2004

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PTO/SB/98 (08-03)

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STATEMENT UNDER 37 CFR 3.73(b)

Applicant/Patent Owner: _____

Application No./Patent No.: 10/025,460 Filed/Issue Date: 20 Sep 2002Entitled: FIBER OPTIC SWITCH PROCESS AND OPTICAL DESIGN

Mems Optical, Inc. _____, a Corporation

(Name of Assignee) _____ (Type of Assignee, e.g., corporation, partnership, university, government agency, etc.)

states that it is:

1. the assignee of the entire right, title, and interest; or2. an assignee of less than the entire right, title and interest.The extent (by, percentage) of its ownership interest is _____ %
in the patent application/patent identified above by virtue of either:A. An assignment from the inventor(s) of the patent application/patent identified above. The assignment was recorded in the United States Patent and Trademark Office at Reel/Frame ___, or for which a copy thereof is attached.**OR**B. A chain of title from the inventor(s), of the patent application/patent identified above, to the current assignee as shown below:1. From: _____ To: _____
The document was recorded in the United States Patent and Trademark Office at
Reel _____, Frame _____, or for which a copy thereof is attached.2. From: _____ To: _____
The document was recorded in the United States Patent and Trademark Office at
Reel _____, Frame _____, or for which a copy thereof is attached.3. From: _____ To: _____
The document was recorded in the United States Patent and Trademark Office at
Reel _____, Frame _____, or for which a copy thereof is attached. Additional documents in the chain of title are listed on a supplemental sheet. Copies of assignments or other documents in the chain of title are attached.[NOTE: A separate copy (i.e., the original assignment document or a true copy of the original document) must be submitted to Assignment Division in accordance with 37 CFR Part 3, if the assignment is to be recorded in the records of the USPTO. See MPEP 302.08]

The undersigned (whose title is supplied below) is authorized to act on behalf of the assignee.

4-1-04

Mark E. Olds

Date
888-510-0695 x 103

Typed or printed name

Telephone number



Signature

Attorney for Applicant

Title

This collection of information is required by 37 CFR 3.73(b). The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-9199 and select option 2.

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ATTORNEY DOCKET NO. 2119-0171P

BIRCH, STEWART, KOLASCH & BIRCH, LLP

UNITED STATES PATENT RIGHTS, OR
UNITED STATES PLUS ALL FOREIGN PATENT RIGHTS

ASSIGNMENT

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APR - 1 2004
OFFICIAL

Application No. 10/025,460

Filed December 26, 2001

Insert Name(s)
of Inventor(s)

WHEREAS, John R. KARPINSKY Daniel M. BROWN

Rodney L. CLARK

(hereinafter designated as the undersigned) has (have) invented certain new and useful improvements in

Insert Title
of Invention

FIBER OPTIC SWITCH PROCESS AND OPTICAL DESIGN

for which an application for Letters Patent of the United States of America has been executed by the
undersigned (except in the case of a provisional application).

Insert Date
of Signing of
Application

on _____; and

Insert Name
of Assignee

WHEREAS, MEMS Optical, Inc.

Insert Address
of Assignee

of 205 Import Circle, Suite 2, Huntsville, AL 35806

its heirs, successors, legal representatives and assigns (hereinafter designated as the Assignee) is desirous of
acquiring the entire right, title and interest in and to said invention and in and to any Letters Patent(s) that
may be granted therefor in the United States of America and

in any foreign countries.

CHECK BOX
IF APPROPRIATE

NOW, THEREFORE, in consideration of the sum of Ten Dollars (\$10.00) to the undersigned in hand paid,
the receipt of which is hereby acknowledged, and other good and valuable consideration, the undersigned
has (have) sold, assigned and transferred, and by these presents does sell, assign and transfer unto said
Assignee the full and exclusive right to the said invention in the United States of America, its territories,
dependencies and possessions and the entire right, title and interest in and to any and all Letters Patent(s)
which may be granted therefor in the United States of America, its territories, dependencies and
possessions, and if the box above is designated, in any and all foreign countries;

and to any and all divisions, reissues, continuations, conversions and extensions thereof for the full term or
terms for which the same may be granted.

Attorney Docket No. 2119-0171P

The undersigned agree(s) to execute all papers necessary in connection with this application and any continuing, divisional, conversion or reissue applications thereof and also to execute separate assignments in connection with such applications as the Assignee may deem necessary or expedient.

The undersigned agree (s) to execute all papers necessary in connection with any interference which may be declared concerning this application or continuation, division, conversion or reissue thereof or Letter Patent(s) or reissue patent issued thereon and to cooperate with the Assignee in every way possible in obtaining and producing evidence and proceeding with such interference.

The undersigned agree(s) to execute all papers and documents and to perform any act which may be necessary in connection with claims or provisions of the International Convention for the Protection of Industrial Property or similar agreements.

The undersigned agree(s) to perform all affirmative acts which may be necessary to obtain a grant of a valid United States of America patent(s) or a grant of a valid United States of America and any foreign patent(s) to the Assignee and to vest all rights therein hereby conveyed to said Assignee as fully and entirely as the same would have been held by the undersigned if this Assignment and sale had not been made.

The undersigned hereby authorize(s) and request(s) the Patent and Trademark Office Officials in the United States of America and in any foreign countries to issue any and all Letters Patents resulting from said application or any continuing, divisional conversion or reissue applications thereof to the said Assignee, as Assignee of the entire interest, and hereby covenants that he has (they have) the full right to convey the entire interest herein assigned, and that he has (they have) not executed, and will not execute, any agreement in conflict herewith.

The undersigned hereby grant(s) the law firm of Birch, Stewart, Kolasch & Birch, LLP the power to insert on this Assignment any further identification which may be necessary or desirable in order to comply with the rules of the U.S. Patent and Trademark Office for recordation of this document.

The undersigned hereby covenant(s) that no assignment, sale, agreement or encumbrance has been or will be made or entered into which would conflict with this assignment.

In witness whereof, executed by the undersigned on the date(s) opposite the undersigned name(s).

Date 5/11/20/2002Name of Inventor ✓ John R. Karpinsky
(signature) John R. KARPINSKY

Date _____

Name of Inventor _____
(signature) Daniel M. BROWN

Date _____

Name of Inventor _____
(signature) Rodney L. CLARK

Date _____

Name of Inventor _____
(signature)

Date _____

Name of Inventor _____
(signature)

Date _____

Name of Inventor _____
(signature)

ATTORNEY DOCKET NO. 2119-0171P

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of Inventor(s)

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Rodney L. CLARK

Insert Title
of Invention

(hereinafter designated as the undersigned) has (have) invented certain new and useful improvements in

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for which an application for Letters Patent of the United States of America has been executed by the
undersigned (except in the case of a provisional application).

Insert Date
of Signing of
Application

on July 1, 2002; and

Insert Name
of Assignee

WHEREAS, MEMS Optical, Inc.

Insert Address
of Assignee

of 205 Import Circle, Suite 2, Huntsville, AL 35806

CHECK BOX
IF APPROPRIATE

its heirs, successors, legal representatives and assigns (hereinafter designated as the Assignee) is desirous of
acquiring the entire right, title and interest in and to said invention and in and to any Letters Patent(s) that
may be granted therefor in the United States of America and

in any foreign countries.

NOW, THEREFORE, in consideration of the sum of Ten Dollars (\$10.00) to the undersigned in hand paid,
the receipt of which is hereby acknowledged, and other good and valuable consideration, the undersigned
has (have) sold, assigned and transferred, and by these presents does sell, assign and transfer unto said
Assignee the full and exclusive right to the said invention in the United States of America, its territories,
dependencies and possessions and the entire right, title and interest in and to any and all Letters Patent(s)
which may be granted therefor in the United States of America, its territories, dependencies and
possessions, and if the box above is designated, in any and all foreign countries;

and to any and all divisions, reissues, continuations, conversions and extensions thereof for the full term or
terms for which the same may be granted.

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In witness whereof, executed by the undersigned on the date(s) opposite the undersigned name(s).

Date _____

Name of Inventor _____

(signature) John R. KARPINSKY

Date 7/1/02

Name of Inventor _____

(signature) Daniel M. BROWN

Date 7/1/02

Name of Inventor _____

(signature) Rodney L. CLARK

Date _____

Name of Inventor _____

(signature)

Date _____

Name of Inventor _____

(signature)

Date _____

Name of Inventor _____

(signature)